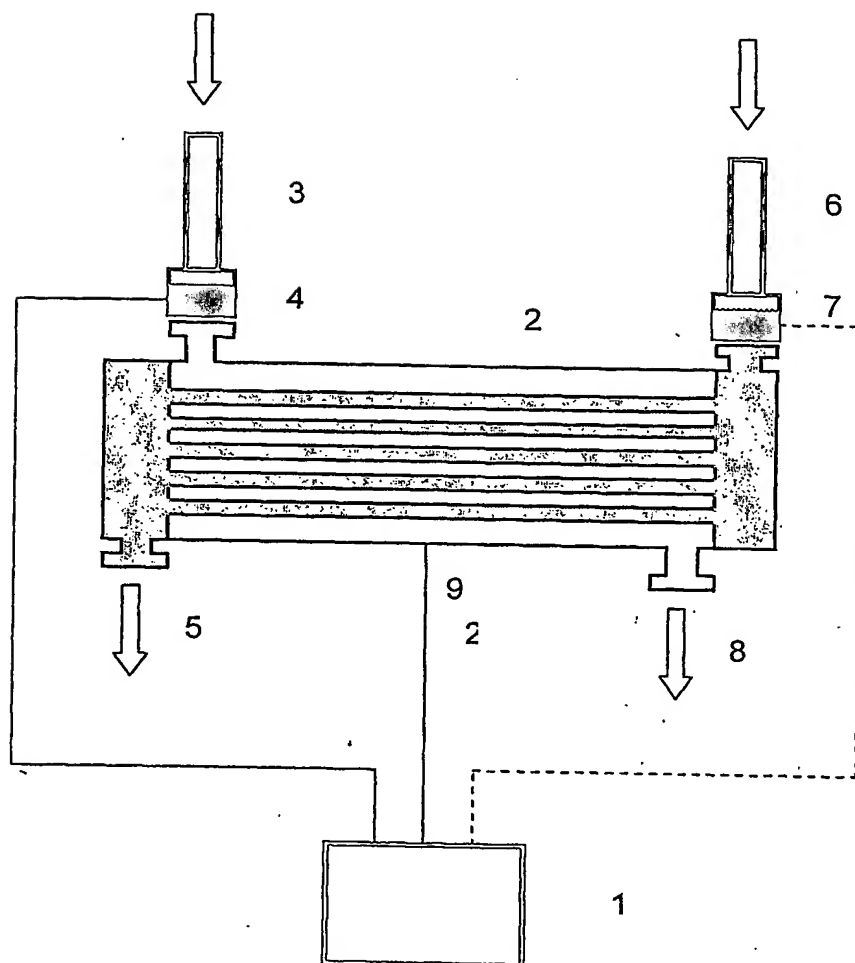


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Figure 1



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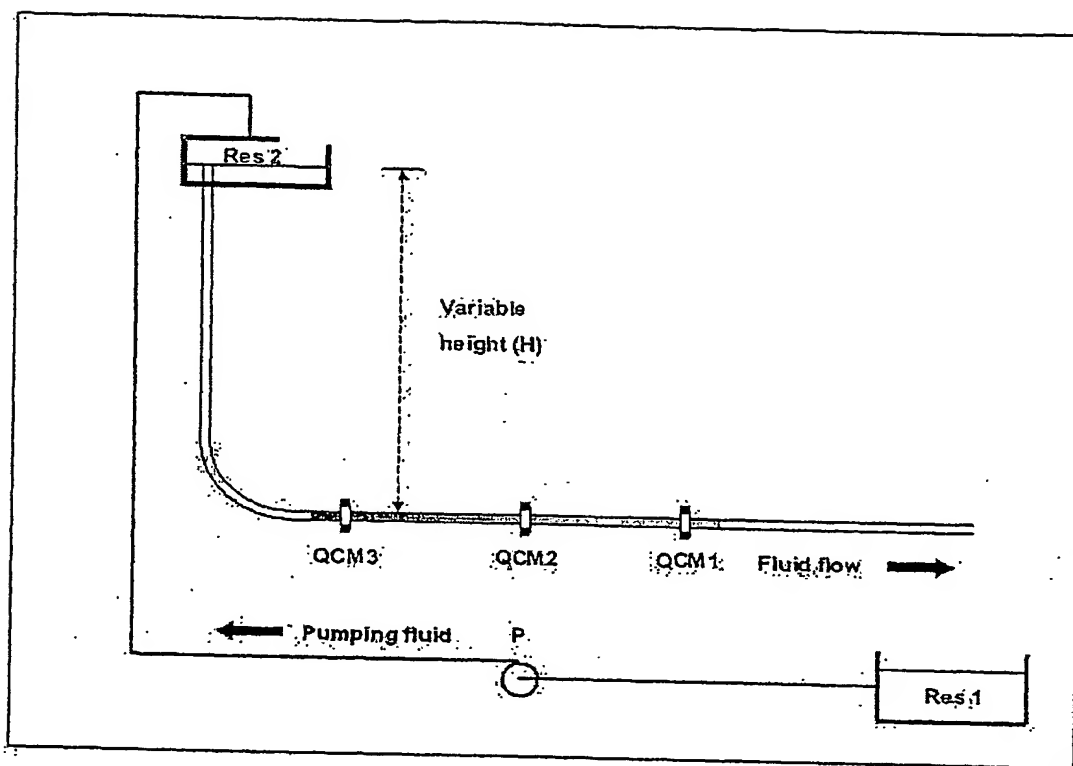


Fig. 2 Schematic representation of liquid flow system. The positions of electrodes (QCM1-3) on a tube are shown in Fig. 3.

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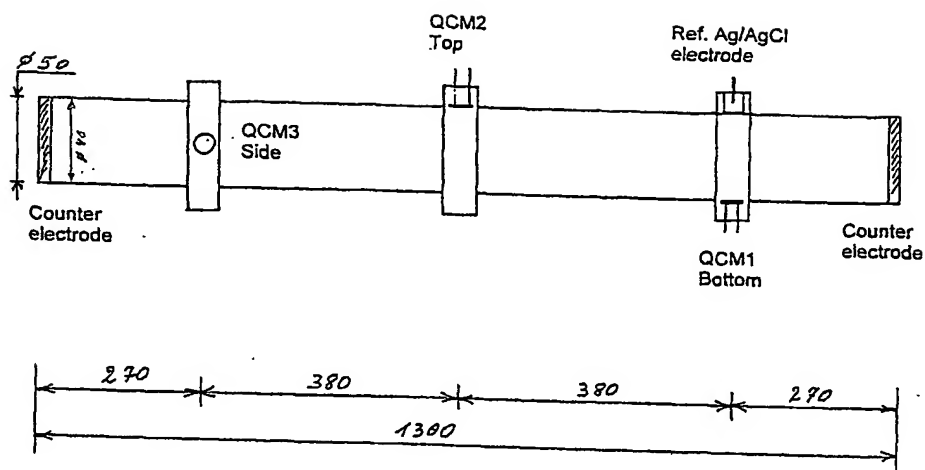


Fig. 3. The dimensions of the tube and the positions electrodes: working electrodes QCM1, QCM2 and QCM3, reference electrode and counter electrode (stainless steel).

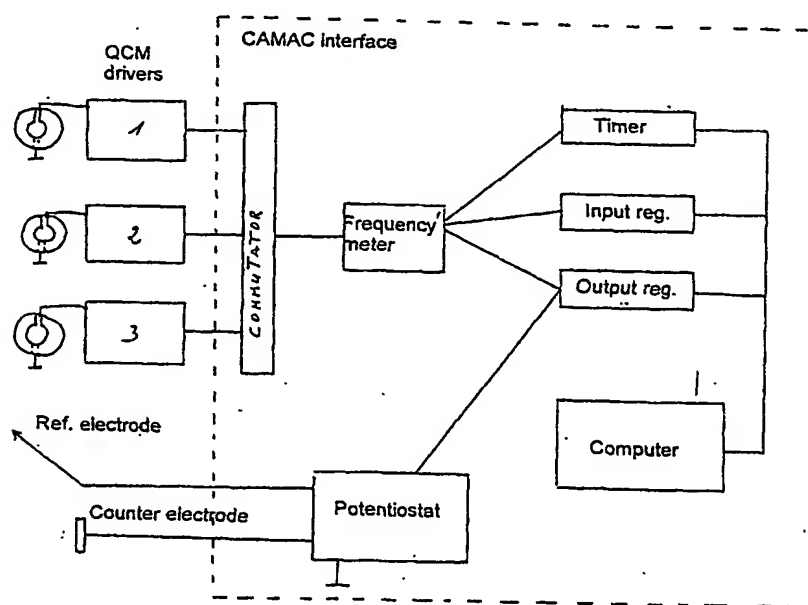


Fig. 4. Block-diagram of EQCM system

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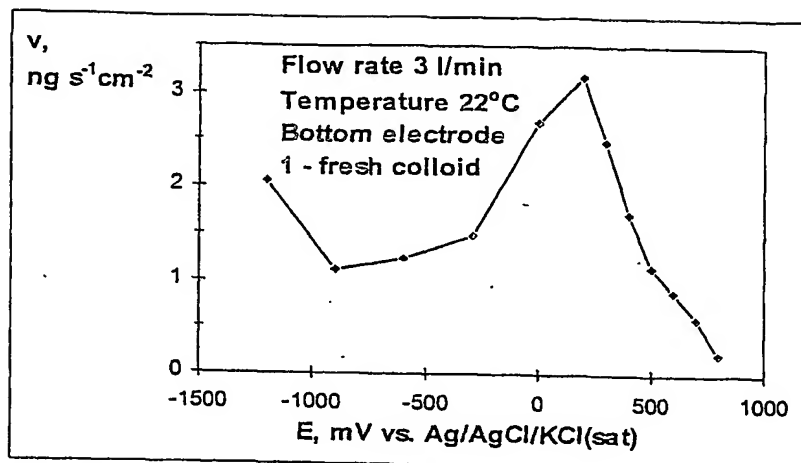


Fig. 5. The dependence of the mass deposition rate on the potential (bottom electrode) in the fresh solution - calcium carbonate and barium sulphate colloid solution was prepared just before starting measurements (the particles are very small - less than 50 nm, the solution looks clear and transparent).

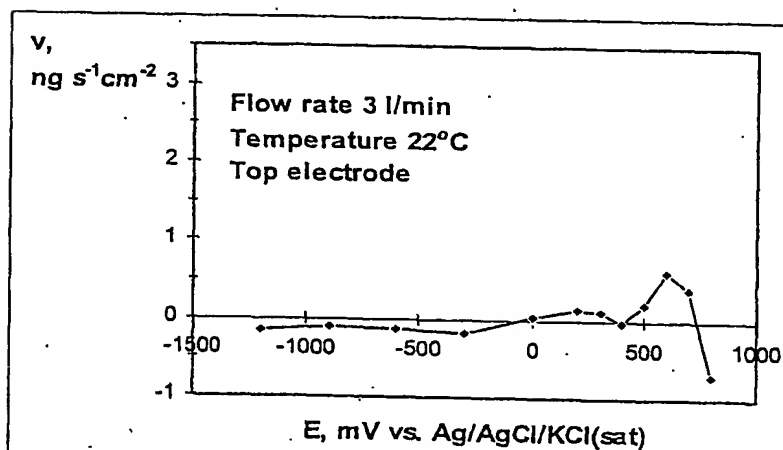


Fig. 6 The dependence of the mass deposition rate on the potential (top electrode) in the fresh solution - calcium carbonate and barium sulphate colloid solution was prepared just before starting measurements.

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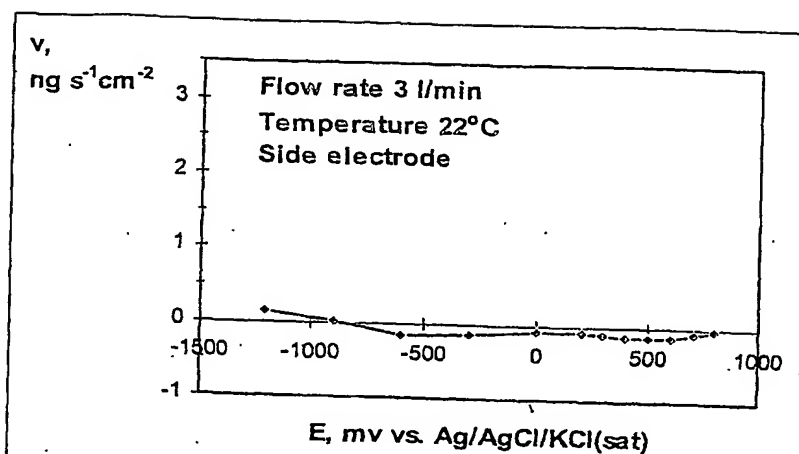


Fig. 7 The dependence of the mass deposition rate on the potential (side electrode) in the fresh solution - calcium carbonate and barium sulphate colloid solution was prepared just before starting measurements.

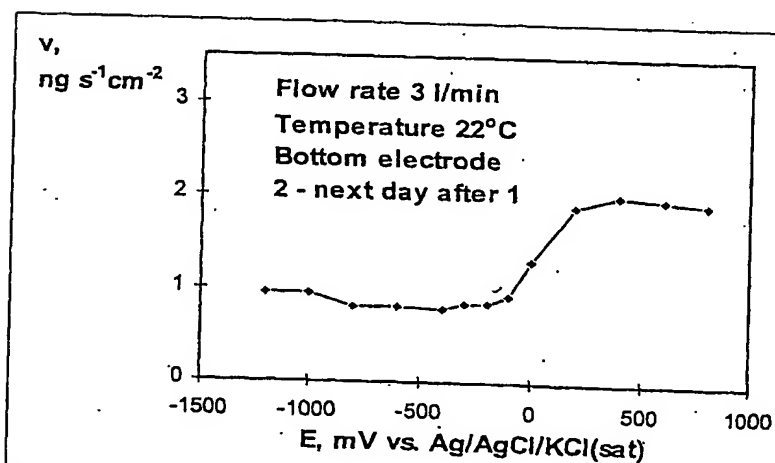


Fig. 8 The dependence of the mass deposition rate on the potential (bottom electrode) the second day after the calcium carbonate and barium sulphate colloid solution was prepared.

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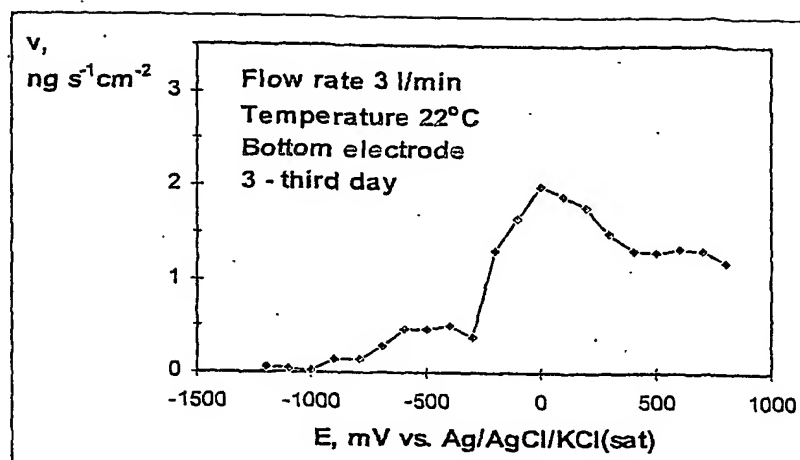


Fig. 9 The dependence of the mass deposition rate on the potential (bottom electrode) the third day after the calcium carbonate and barium sulphate colloid solution was prepared.

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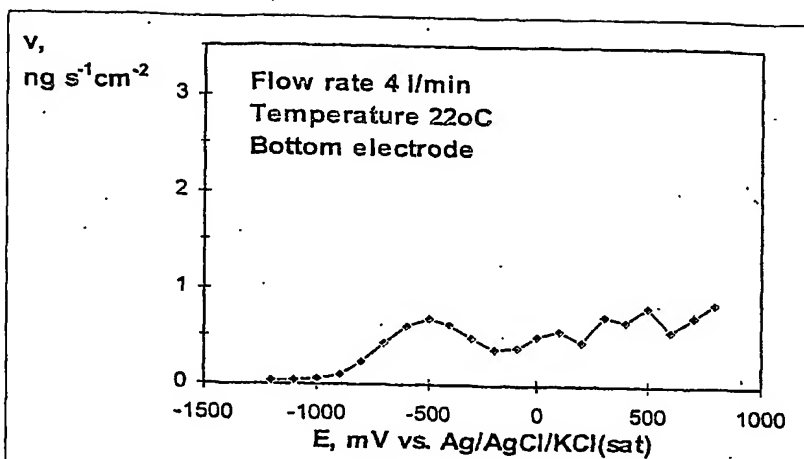


Fig. 10 The dependence of the mass deposition rate on the potential (bottom electrode) the third day after the calcium carbonate and barium sulphate colloid solution was prepared.

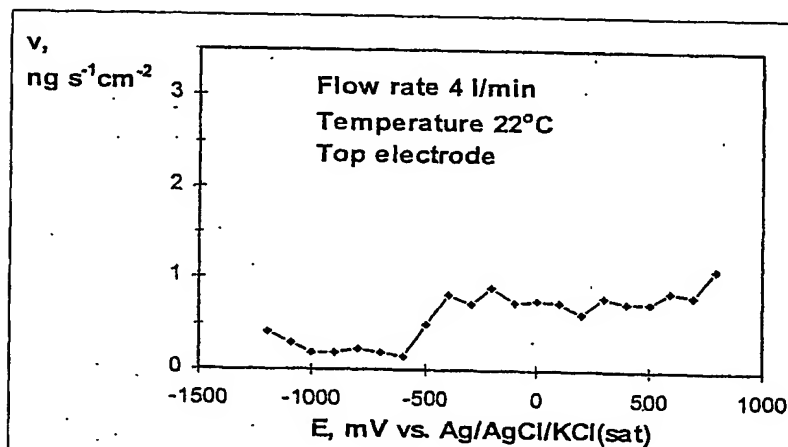


Fig. 11 The dependence of the mass deposition rate on the potential (top electrode) the third day after the calcium carbonate and barium sulphate colloid solution was prepared.

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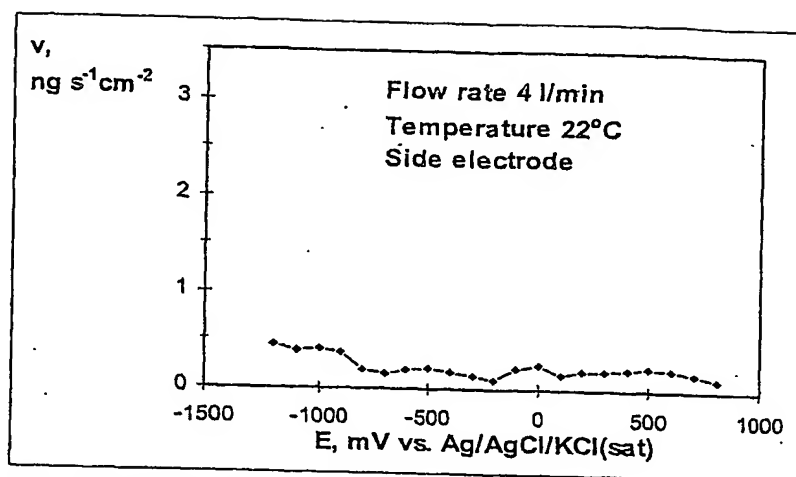


Fig. 12 The dependence of the mass deposition rate on the potential (side electrode) the third day after the calcium carbonate and barium sulphate colloid solution was prepared.